



MP7 Rec'd PCT/PTO 13 JAN 2006 PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Yoshiko TAKAYAMA et al. : **Mail Stop: PCT**
Serial No. 10/553,320 : Attorney Docket No. 2005_1592A
Filed October 17, 2005 :

AGENT FOR REPAIRING CORNEAL PERCEPTION
[Corresponding to PCT/JP2004/005456
Filed April 16, 2004]

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☒ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application PCT/_____; and/or
- ☐ each reference previously cited in prior parent application Serial No. _____.

1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE, . .

THE COMMISSIONER IS AUTHORIZED
TO MAKE ANY OFFICE ACTION IN THE
PATENT AND TRADEMARK OFFICE
RECORD NO. 43-0075

and thus no certification and/or fee is required.

- 1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

- (1) ☐ the certification of paragraph 2 below is provided, **or**
(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

**the certification of paragraph 2 below is provided, and
the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.**

2. It is hereby certified


- a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☒ a corresponding English language patent or patent application submitted herewith,
 - b. ☒ a foreign patent office search report (in the English language) submitted herewith,
 - c. ☒ the concise explanation contained in the specification of the present application at pages 1-8,
 - d. ☐ the concise explanation set forth in the attached English language abstract,
 - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☒ A foreign patent office search report citing one or more of the references is enclosed.

Respectfully submitted,

Yoshiko TAKAYAMA et al.

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January 13, 2006

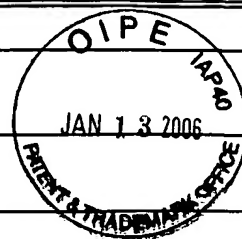
FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

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ATTY DOCKET NO.
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10/553,320APPLICANT
Yoshiko TAKAYAMA et al.FILING DATE
October 17, 2005

GROUP



U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6,329,547	12/2001	Shirasawa et al.			Corresponds to BJ
	AB	4,678,783	7/1987	Hidaka et al.			Corresponds to AN
	AC	2004/0138286	7/2004	Imazaki et al.			Corresponds to BH
	AD	2002/0119140	8/2002	McKerracher et al.			
	AE						
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AG	2001-515018	9/2000	JP			X
	AH	1 011 330	9/2000	EP			Corresponds to AG
	AI	02/083175	10/2002	WO			Abstract
	AJ	1 378 247	1/2004	EP			Corresponds to AI
	AK	03/020281	3/2003	WO			
	AL	2000-264847	9/2000	JP			X
	AM	1 142 585	10/2001	EP			Corresponds to AL
	AN	61-227581	10/1986	JP			X

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	T. Linna et al., "Recovery of Corneal Nerve Morphology Following Laser <i>in situ</i> Keratomileusis", Exp. Eye Res., Vol. 66, pp. 755-763, 1998.
	AP	T. Linna et al., "Effect of Myopic LASIK on Corneal Sensitivity and Morphology of Subbasal Nerves", IOVS, Vol. 41, pp. 393-397, 2000.
	AQ	R. Ang et al., "Dry eye after refractive surgery", Current Opinion in Ophthalmology, Vol. 12, pp. 318-322, 2001.

EXAMINER

DATE CONSIDERED

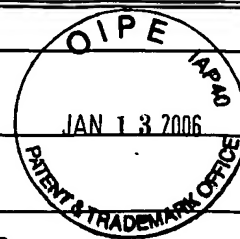
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	BA						
	BB						
	BC						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	BD	00/57914	10/2002	WO			
	BE	02/076977	10/2002	WO			
	BF	1 370 552	12/2003	EP			Corresponds to BE
	BG	1 370 553	12/2003	EP			Corresponds to BE
	BH	02/100833	12/2002	WO			
	BI	1 403 255	3/2004	EP			Corresponds to BH
	BJ	2000-44513	2/2000	JP			X
	BK	01/68607	9/2001	WO			Abstract
	BL	1 270 570	1/2003	EP			Corresponds to BK
	BM	2003-073357	3/2003	JP			Abstract

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	BN	M. Hirose et al., "Molecular Dissection of the Rho-associated Protein Kinase (p160ROCK)-regulated Neurite Remodeling in Neuroblastoma N1E-115 Cells", The Journal of Cell Biology, Vol. 141, No. 7, pp. 1625-1636, June 29, 1998.
	BO	P. Ozdinler et al., "Regulation of Neurotrophin-Induced Axonal Responses via Rho GTPases", The Journal of Comparative Neurology, Vol. 438, pp. 377-387, 2001.
	BP	K. Chan et al., "Specificity of a Neuronotrophic Factor from Rabbit Corneal Epithelial Cultures", Exp. Eye Res., Vol. 41, pp. 687-699, 1985.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT

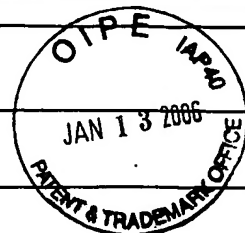
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	CA						
	CB						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	CC	2000-44513	2/2000	JP			X
	CD	1 094 055	4/2001	EP			Corresponds to CC
	CF						
	CF						
	CG						
	CH						
	CI						
	CJ						

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	CK	M. Negishi et al., "Regulation of Neurite formation by Rho family GTPases", Seikagaku. Journal of Japanese Biochemical Society, Vol. 74, No. 5, pp. 395-398, May 2002 (in Japanese).
	CL	M. Nikolic et al., "The role of Rho GTPases and associated kinases in regulating neurite outgrowth", The International Journal of Biochemistry & Cell Biology, Vol. 34, pp. 731-745, 2002.
	CM	M. Lehmann et al., "Inactivation of Rho Signaling Pathway Promotes CNS Axon regeneration", The Journal of Neuroscience, Vol. 19, No. 17, pp. 7537-7547, September 1, 1999.
	CN	P. Dergham et al., "Rho Signaling Pathway Targeted to Promote Spinal Cord Repair", The Journal of Neuroscience, Vol. 22, No. 15, pp. 6570-6577, August 1, 2002.
	CO	

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